

UMA Implementations

This page gathers information about implementation efforts and interest, along with interoperability testing plans. Maciej Machulak is the UMA group's implementation coordinator. Key existing implementations that we know about are noted below, in alphabetical order of the project or organization.

- [ForgeRock](#)
- [Gluu](#)
- [Jericho Systems](#)
- [MITREid Connect](#)
- [RedHat KeyCloak](#)
- [SMART project \(non-healthcare-related\)](#)
- [Synergetics](#)
- [Telia](#)
- [Universidad de Alcalá Telematic Services Engineering Group](#)

ForgeRock

The company [ForgeRock](#) has an [Identity Platform](#) that includes an [implementation of UMA](#), with both an "UMA Provider" (authorization server component) and an "UMA Protector" (resource server component), targeted at both consumer and employee consent and data sharing use cases. The implementation is build on the open-source projects [OpenUMA](#), [OpenAM](#), and [OpenIG](#). The case study [Users Managing Delegated Access to Online Government Services](#) was based on a POC performed with ForgeRock.

Gluu

The company [Gluu](#) (also at [@GluuFederation](#)) hosts the OXAuth open-source project, to which it has contributed an [UMA component](#). The main use case for this implementation is enterprise usage; see the [Enterprise UMA case study](#), the March 2014 "UMA for the Enterprise" webinar [slide s](#) and [recording](#), Gluu's [UMA page](#), and its [YouTube channel](#) for more info.

Gluu has also implemented a crowdfunded [Apache server plugin](#) that enables web apps in an Apache container to be UMA-protected.

Gluu has also proposed an "OX UMA claim profile"; for more information, see the [Third-Party Profiles](#) page.

Jericho Systems

In 2015 the company [Jericho Systems](#) announced a product, [Consentral on FHIR](#), with UMA support; it also performed a [Privacy on FHIR demonstration](#) with UMA support.

MITREid Connect

The open-source [MITREid Connect](#) project has [UMA support](#).

RedHat KeyCloak

RedHat's [KeyCloak](#) authorization services offering includes partial [UMA1](#) support, and the project is working on including full [UMA2](#) support as of June 2017.

SMART project (non-healthcare-related)

This older Java implementation includes an [UMA/J](#) framework and sample applications. See the [SMART blog](#). The OAuth portion, originally named [leeloo](#), was contributed to Apache Amber (now Apache [Oltu](#), which is going to include OpenID Connect and good JWT support too). Part the SMART project involves development of set of open-source Python libraries, called [Puma](#), for UMA-enabling web apps to become UMA resource servers and clients. Note that this SMART project is distinct from the [SMART health IT](#) initiative.

Synergetics

The company [Cloud Identity Limited](#) (since acquired by [Synergetics](#)) developed an UMA Authorization Server - [NuveAM \(Online Demo\)](#). NuveAM implements the UMA protocol and supports other open standards including OAuth 2.0, OpenID Connect, and SAML 2.0. The company also developed Java and Python SDKs. More information is on the company's website and the company's [YouTube channel](#). The company integrated UMA with its [NuveLogin](#) service to simplify the flow for Resource Server and Client applications.

Telia

The Telia telecom company has an [identity solution](#) that provides UMA support.

Universidad de Alcalá Telematic Services Engineering Group

This Python implementation, part of the European Union-funded project [SITAC](#), focuses on IoT use cases. See a video [here](#).